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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/770,931	01/26/2001	John H. Schneider	00.05.12.1	8223
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THOMAS R. WEAVER			EXAMINER	
ATTORNEY-AT-LAW			YU, GINA C	
P.O. BOX 140 DUNCAN, OF				
DONCAN, OF	× 1333 <del>4</del>		ART UNIT	PAPER NUMBER
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			DATE MAILED: 10/22/2002 6	

Please find below and/or attached an Office communication concerning this application or proceeding.

Offic Action Summary    Gor770.931   SCINECIDER ET AL.		Applicati n N .	Applicant(s)			
Examiner   Gina C. Yu   1917   191						
Gins C. Yu	Offic Action Summers					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address ─ Pri of tr Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Learewing to the many be evaluate under the provided of 27 CPR 1.15(6). In on event, however, may a reply be finely filled  Learewing to the many be evaluated under the provided of 27 CPR 1.15(6). In on event, however, may a reply be finely filled  Learewing to the many be evaluated under the provided of 27 CPR 1.15(6). In on event, however, may a reply be finely filled  Learewing to the provided the third of 27 CPR 1.15(6). In on event, however, may a reply be finely filled  Learewing the provided the provided the provided of 27 CPR 1.15(6). In one event, however, may a reply be finely filled  I this period for reply specified above is listed share filling the provided of 27 CPR 1.15(6). In one event, however, may a reply be finely filled  I this period for reply specified above is listed and the communication.  Fallow for the provided the provided and the communication.  Fallow for the provided the provided and the communication.  Fallow for the provided and the provided and the communication.  Status  Responsive to communication(s) filled on 31 July 2002.  This action is FinAL.  20 \( \text{D} \) This action is non-flinal.  3) \( \text{Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) \( \text{C claim(s) } \( \text{List} \) Salary are pending in the application.  4) \( \text{C claim(s) } \( \text{List} \) Salary are pending in the application.  5) \( \text{C claim(s) } \( \text{List} \) Salary are pending in the application.  5) \( \text{C claim(s) } \( \text{List} \) Salary are pending in the application.  5) \( \text{C claim(s) } \( \text{List} \) Salary are pending in the application.  6) \( C clai	Onic Action Summary					
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THE MAILING DATE OF THIS COMMUNICATION.  Entersions or time may be variable under the provisions of 3° CFR 1.35(a). In co event, however, may a reply be timely filed after SIX (8) MCNTHS from the mailing date of this communication.  Entersions or time may be variable under the provisions of 3° CFR 1.35(a). In co event, however, may a reply be timely filed after SIX (8) MCNTHS from the mailing date of this communication.  Failure to reply within the set or extended pendence for reply will, by statute, cause the application to become ABANDONEO (38 U.S.C. § 133). Any reply received by the Protein destroy the mailing date of this communication, even if timely filed, may reduce any any replication is provided by the Citical set than time and existent in missing date of this communication, even if timely filed, may reduce any any replication is provided by the Citical set from the mailing date of this communication, even if timely filed, may reduce any any reduce any statute.  Statuse  1)						
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Art Unit: 1617

# **DETAILED ACTION**

# Election/Restrictions

Applicant's election with traverse of alkaline earth metal hydroxides as the "first chemical composition"; polyaziridines as the "cross linking agent"; and silica as the "second material" in Paper No. 5 is acknowledged. Claims 16-28, and 30-31 read on the elected invention. Claims 29, 32, and 33 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim.

The traversal is on the ground(s) that the requirement could be burdensome to the applicants. This is not found persuasive because the election requirement is proper when claims present multiple inventions and species that are unrelated and diverse as in this case. See MPEP § 808.

The requirement is still deemed proper and is therefore made FINAL.

#### Claim Objections

Claims 26 and 27 are objected to, as the claims do not end with a period. Each claim must begin with a capital letter and ends with a period. See MPEP 608.01 (m). Appropriate correction is required.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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1. Claims 16, 18, 20, 21, 23-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Walles et al. (US 4756844) ("Walles") in view of Vijayendran et al. (US 5173526) ("Vijayendran").

Walles teaches controlled-release composition having a water permeable membrane comprising submicron particles (anticoalescent agents), which encapsulate a liquid or solid active agent. See abstract. Aqueous colloidal silica is a preferred anticoalescent agent. See col. 5, line 44 – col. 7, line 17. While the Walles invention uses submicron silica, examiner views it obvious for a skilled artisan to have discovered workable particle size by routine experimentation.

The reference teaches that the permeable membrane is applied as a coating to the agent, forming a capsule. Coating materials such as polystyrene, acrylic acid polymers, and synthetic latexes as disclosed as the membrane materials suitable for the prior art invention. See col. 5, lines 7 – 43. The reference teaches that uncoated diameter of core agents can be in the range of 0.04-3 mm. See col. 7, line 58 – col. 8, line 20; instant claims 21 and 23. There the reference also teaches that the skilled artisan would have decided the membrane thickness depending on the presence of ions and salts and the pH in the carrier liquid, etc. See instant claim 21.

Walles fails to teach polyurethane-vinyl polymers.

Vijayendran teaches polyurethane-vinyl hybrid polymer useful as a protective coating material. The reference teaches that the invention is economically advantageous over the conventionally known coating materials such as polystyrene.

See col. 1, lines 15 – 42. Examiner notes that the limitation following "prepared by"

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ending at "thereby form a urethane/vinyl hybrid polymer" is a process, which will not be given patentable weight in this product claim. See MPEP § 2113.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the invention of Walles by substituting the polyurethane-vinyl polymer as suggested by Vijayyendran because of the expectation of successfully producing controlled-release composition with cost efficiency.

2. Claims 19, 22, 30, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Walles and Vijayendran as applied to claims 16, 18, 20, 21, and 23-28, and further in view of Garcia et al. (US 6436540 B1) ("Garcia").

While Vijayendran teaches the addition of crosslinking agents, the combined references fail to teach using polyaziridines.

Garcia teaches that polyaziridines are conventionally used in crosslinking polyurethane/polyvinyl hybrid polymers. See Examples 1-4 and Table 1.

It is prima facie obvious to substitute equivalents for same purposes so long as the equivalency is recognized in the prior arts. See MPEP § 2144.06.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the composition of the combined references by substituting the crosslinking agents there with another conventionally used crosslinking agent polyaziridines, as suggested by Garcia, because of the expectation of successfully producing a composition of similar effects.

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3. Claim 17 is are rejected under 35 U.S.C. 103(a) as being unpatentable over Walles and Vijayendran as applied to claims 16, 18, 20, 21, 23-28 above, and further in view of Newlove et al. (US 5948735) ("Newlove").

Walles and Vijayendran, discussed above, fail to teach alkaline earth hydroxide.

Newlove teaches that calcium hydroxide, an alkaline earth hydroxide, is a conventional breaker particles used in the treatment of subterranean formations. See col. 8, lines 20-59. The invention is directed to the use of encapsulated particles of breaker chemicals. See col. 1, lines 5 – 28.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the invention of the combined references by substituting the active agents with calcium hydroxide as suggested by Newlove because of the expectation of successfully producing encapsulated breaker chemicals.

### Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gina C. Yu whose telephone number is 703-308-3951.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on 703-305-1877. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4242 for regular communications and 703-308-4242 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1234.

Gina C. Yu Patent Examiner October 19, 2002

REENI PADMANABHAN